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## Programs, Practices, People

- 576 Health professions development in the Trust Territories of the Pacific Islands
- 577 New test to detect carriers of gene for cystic fibrosis
- 578 International conference and educational workshop on hypothermia
- 578 Issues and problems in measuring impact on health status
- 578 FDA proposes to withdraw its approval of amphetamines for weight reduction
- 579 Cancer Information Service
- 579 OSHA and NIOSH will cooperate with Commission of European Communities
- 579 "Special Report on Aging: 1979," published by NIA
- 579 New medical information systems help physicians treat the chronically ill
- 580 Call for papers for meeting of Society for Clinical Trials
- 580 HEW awards \$1.2 million for solar energy demonstration projects
- 581 One-third of medical students in United States get part of training at VA facilities
- 581 Poster raises interest in immunization
- 581 "Rape and Older Women: A Guide to Prevention and Protection"
- 582 Seeing—free loan film on sight preservation featuring Helen Hayes
- 582 Tropical medicine bibliography is produced on trial basis
- 583 Cost savings through new technique for reimbursement for medical services
- 583 FDA bans diethylstilbestrol as growth promoter in animals
- 583 Industrial toxicology and control of hazardous materials and waste
- 583 Education notes
- 585 Publications
- 587 1979 index

PHR bookshelf (cover 3)



Cover: A husband comforts his grieving wife after Hurricane Celia destroyed their home in Corpus Christi, Tex., in 1970 (*American Red Cross photo by Jack Shere*) The lead article in this issue presents the results of a 1977 retrospective investigation to determine the effects of Hurricane Agnes on the physical and mental health of residents of the Wyoming Valley of Pennsylvania.

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## Cost Savings Through New Technique for Reimbursement for Medical Services

■ Reimbursement of physicians for hospital services by the case, instead of by the traditional fee-for-service method, may be to the consumers' advantage, according to an experimental study conducted by the Pennsylvania Blue Cross with support from the National Center for Health Services Research. Preliminary results indicate that such a switch in reimbursement techniques could cut costs and reduce patients' length of stay. Thus, the technique could have important implications for efforts to contain skyrocketing medical costs.

In the study, reimbursement under the traditional, disaggregated fee-for-service approach was compared with fixed, per-case reimbursement determined by the diagnosis. Comparisons of the study group with longitudinal and cross-sectional control groups revealed modest favorable changes in average lengths of stay in the hospital as well as some cost savings. According to the principal investigator, Gene A. Markel, these preliminary results represent an important stepping stone for future research aimed at offering physicians in fee-for-service practices effective incentives for eliminating unnecessary hospitalization and reducing lengths of stay.

*Per Case Reimbursement for Medical Services by Gene A. Markel. DHEW Publication No. (PHS) 79-3230, October 1978. NCHSR Research Summary Series. Single copies are available free from the National Center for Health Services Research/OASH, Rm. 7-44, 3700 East-West Highway, Hyattsville, Md. 20782 (301/436-8970).*

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## FDA Bans Diethylstilbestrol As Growth Promoter in Animals

■ The Food and Drug Administration has announced a ban on the use of diethylstilbestrol (DES) as a growth promoter in cattle and sheep. This synthetic hormone, which has been used since the 1950s to make animals grow faster, has been shown to cause cancer in both animals and people. Alternative growth promoters are avail-

able. DES is administered to animals as an implant behind the ears and as an additive to their feed. The drug also is used to treat certain cancers and other medical conditions in people, but the action to ban DES does not affect its use for these purposes.

The action by FDA upholds a decision made September 21, 1978, by FDA Administrative Law Judge Daniel Davidson following a lengthy hearing.

Former FDA Commissioner Donald Kennedy concluded that:

- DES causes cancer and it has not been shown that there is an amount below which it does not cause cancer.
- Residues of DES occur in food from animals which have been treated with it.
- There is no currently approved way to detect whether there are carcinogenic DES residues in the edible meat of animals.
- The law does not authorize FDA to consider the economic benefits of drugs such as DES; in any event, those opposing the ban have not demonstrated that it will have any significant adverse environmental or economic impact.

The manufacture and shipment of DES was banned as of July 13, 1979. Use of DES in livestock and sheep must be ended by November 1979.

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# education notes

**Fellowships for study of ethics and the life sciences.** The Hastings Center, Institute of Society, Ethics and the Life Sciences, is offering three 1-year resident postdoctoral fellowships for the study of ethics and the life sciences for the academic years 1980-81.

The fellowships are offered under a grant from the National Endowment for the Humanities and the Society for

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## Industrial Toxicology and Control of Hazardous Materials and Waste

■ A seminar on industrial toxicology and occupational control of hazardous materials has been scheduled for December 10-14, 1979, and March 17-21, 1980, in Nashville, Tenn. A seminar on hazardous waste management will also be held in Nashville, on February 18-22, 1980. These seminars are sponsored by the Toxic Substance Control Laboratory and the Center for Environmental Quality Management of Vanderbilt University, Nashville.

The seminar on industrial toxicology and occupational control of hazardous materials is geared to provide a working knowledge of hazardous materials and to be responsive to the need for compliance with the Occupational Safety and Health Act (OSHA) regulation of hazardous materials. Consultation will be available throughout the meetings.

The seminar on hazardous waste management is designed to furnish an overall understanding of hazardous waste control and its application to compliance with the Resource Conservation and Recovery Act (RCRA) regulation of hazardous waste disposal.

For further information, contact Janet Vance, Vanderbilt University, Box 6222, Sta. B, Nashville, Tenn. 37235, telephone 615: 322-2331.

Values in Higher Education. The program is interdisciplinary, is open to applicants from all fields, and requires an advanced doctoral or professional degree (or its equivalent). Application deadline is January 1, 1980. Request brochure from B. Baya, Post-Doctoral Fellowship Program, The Hastings Center, 360 Broadway, Hastings-on-Hudson, New York 10706.

**Air Pollution Training Institute.** Following is a chronological schedule of the courses being offered by the Environmental Protection Agency from January through September 1980. The courses range from an orientation level for personnel with little or no experience to a highly technical level to meet the needs of the more experienced air pollution control personnel. The fees are \$22 per student day for lecture courses and \$35 per day for laboratory courses. Fees cannot be waived.

For further information, contact Registrar, Air Pollution Training Institute, U.S. Environmental Protection Agency, MD-20 Research Triangle Park, N.C. 27711 (telephone 919: 541-2497, FTS 629-2497).

1980 chronological schedule of courses

<i>Date</i>	<i>Course No. and title</i> <sup>1</sup>	<i>Days</i>	<i>Location</i> <sup>2</sup>
<i>January</i>			
8-11	413 Control of Particulate Emissions	4	Birmingham, Ala. (7)
8-11	431 Air Pollution Control Technology	4	Puerto Rico
14-18	423 Dispersion of Air Pollution—Theory and Model Application	4½	Atlanta, Ga.
22-25	444 Air Pollution Field Enforcement	3½	Portland, Oreg. (6)
21-Feb. 1	*464 Analytical Methods for Air Quality Standards	10	Research Triangle Park, N.C.
<i>February</i>			
4-8	427 Combustion Evaluation	5	Davis, Calif. (4)
4-8	*450 Source Sampling for Particulate Pollutants	4½	Research Triangle Park, N.C.
11-14	*468 Source Sampling and Analysis for Gaseous Pollutants	4	Research Triangle Park, N.C.
11-15	426 Statistical Evaluation Methods for Air Pollution Data	4½	San Francisco, Calif.
11-15	542 Principles and Practice of Air Pollution Control	4½	Atlanta, Ga.
25-29	427 Combustion Evaluation	5	Philadelphia, Pa. (5)
25-29	*474 Continuous Emission Monitoring	5	Research Triangle Park, N.C.
26-29	415 Control of Gaseous Emissions	4	Columbia, S.C. (7)
<i>March</i>			
4-7	413 Control of Particulate Emissions	4	Boston, Mass. (1)
4-7	470 Quality Assurance for Air Pollution Measurement Systems	4	Research Triangle Park, N.C.
10-14	452 Principles and Practice of Air Pollution Control	4½	Baltimore, Md.
17-21	411 Air Pollution Meteorology	4½	Cincinnati, Ohio (3)
17-21	*450 Source Sampling for Particulate Pollutants	4½	New Brunswick, N.J. (5)
18-21	482 Sources and Control of Organic Air Pollutants	4	San Diego, Calif.
24-28	*435 Atmospheric Sampling	4½	Houston, Tex.
<i>April</i>			
8-11	425 Legal Aspects of Control Agency Regulatory Operations	3½	Gainesville, Fla. (7)
15-18	415 Control of Gaseous Emissions	4	Cincinnati, Ohio (3)
15-18	482 Sources and Control of Organic Air Pollutants	4	Washington, D.C.
28-May 2	463 Ambient Air Quality Monitoring Systems	5	Research Triangle Park, N.C.
<i>May</i>			
5-9	*450 Sources and Control of Organic Air Pollutants	4½	Research Triangle Park, N.C.
12-16	427 Combustion Evaluation	5	Gainesville, Fla. (7)
12-16	*420 Air Pollution Microscopy	4½	Edison, N.J.
20-23	444 Air Pollution Field Enforcement	3½	Chicago, Ill. (8)
20-23	413 Control of Particulate Emissions	4	Dallas, Tex. (2)
<i>June</i>			
2-6	*474 Continuous Emission Monitoring	5	Research Triangle Park, N.C.
3-6	444 Air Pollution Field Enforcement	3½	Harrisburg, Pa. (3)
9-13	*450 Source Sampling for Particulate Pollutants	4½	Seattle, Wash. (6)
9-13	423 Dispersion of Air Pollution—Theory and Model Application	4½	Albany, N.Y.
10-13	470 Quality Assurance for Air Pollution Measurement Systems	4	Indianapolis, Ind.
16-20	*435 Atmospheric Sampling	4½	New Brunswick, N.J. (5)
17-20	413 Control of Particulate Emissions	4	Chicago, Ill. (8)
<i>July</i>			
7-11	452 Principles and Practice of Air Pollution Control	4½	Houston, Tex.
14-18	427 Combustion Evaluation	5	Kansas City, Mo. (2)
14-18	*450 Source Sampling for Particulate Pollutants	4½	Chicago, Ill. (8)
14-18	427 Combustion Evaluation	5	Boston, Mass. (1)
21-25	426 Statistical Evaluation Methods for Air Pollution Data	4½	Topeka, Kans.
22-25	413 Control of Particulate Emissions	4	Davis, Calif. (4)
22-25	413 Control of Particulate Emissions	4	Philadelphia, Pa. (4)
21-Aug. 1	*464 Analytical Methods for Air Quality Standards	10	Research Triangle Park, N.C.

1980 chronological schedule of courses (continued)

Date	Course No. and title <sup>1</sup>	Days	Location <sup>2</sup>
<b>August</b>			
4-8	*450 Source Sampling for Particulate Pollutants	4½	Research Triangle Park, N.C.
11-14	*468 Source Sampling and Analysis for Gaseous Pollutants	4	Research Triangle Park, N.C.
11-15	427 Combustion Evaluation	5	Seattle, Wash. (6)
18-22	*435 Atmospheric Sampling	4½	Davis, Calif. (4)
18-22	411 Air Pollution Meteorology	4½	Richmond, Va. (5)
19-22	482 Sources and Control of Organic Air Pollutants	4	Chicago, Ill.
25-29	452 Principles and Practice of Air Pollution Control	4½	Buffalo, N.Y.
26-29	413 Control of Particulate Emissions	4	Cleveland, Ohio (3)
26-29	413 Control of Particulate Emissions	4	Jackson, Miss. (2)
<b>September</b>			
8-12	*474 Continuous Emission Monitoring	5	Research Triangle Park, N.C.
15-19	427 Combustion Evaluation	5	Detroit, Mich. (8)
15-19	423 Dispersion of Air Pollution—Theory and Model Application	4½	Denver, Colo.
23-26	415 Control of Gaseous Emissions	4	Boston, Mass. (1)
23-26	444 Air Pollution Field Enforcement	3½	San Francisco, Calif. (4)
23-26	470 Quality Assurance for Air Pollution Measurement Systems	4	Phoenix, Ariz.

<sup>1</sup> Asterisk (\*) indicates laboratory courses.

<sup>2</sup> Numbers in parentheses indicate courses conducted by area training centers under grants from the Environmental Protection Agency, Office of Air Quality Planning and Standards, Manpower and Technical Information Branch (MTIB), with support provided by Northrop Services, Inc., a firm also under contract to MTIB. The institutions involved and their respective numbers are as follows.

(1) New England Consortium on Environmental Protection, c/o Boston College, Weston, Mass.

(2) University of Texas, Austin.

(3) University of Cincinnati, Cincinnati, Ohio.

(4) University of California—Davis.

(5) Rutgers University, New Brunswick, N.J.

(6) University of Washington, Seattle.

(7) University of Florida, Gainesville.

(8) Illinois Institute of Technology, Chicago.

# publications

## FEDERAL

Cost Containment in Hospitals Through Energy Conservation. Case histories of energy conservation based on a national survey of select hospitals. *DHEW Publication No. (HRA) 79-14511. 1979; 28 pages.*

Child Health Assessment. Part 2: The First Year of Life. *DHEW Publication No. (HRA) 79-25. June 1979; 22 pages.*

Food Consumption Profiles of White and Black Persons Aged 1-74 Years: United States, 1971-74. *DHEW Publication No. (PHS) 79-1658, Series 11, No. 210. May 1979; 103 pages.*

Weight and Height of Adults 18-74 Years of Age: United States, 1971-74. *DHEW Publication No. (PHS) 79-*

*1659, Series 11, No. 211. May 1979; 49 pages.*

Skin Conditions and Related Need for Medical Care Among Persons 1-74 Years, United States, 1971-1974. *DHEW Publication No. (PHS) 79-1660, Series 11, No. 212. November 1978; 72 pages.*

Sickle Cell Anemia. A medical review. By Jane S. Lin-Fu. *DHEW Publication No. (HSA) 79-5123. Revised 1972, reprinted 1979. 26 pages.*

Maple Syrup Urine Disease Symposium. Issues and Perspectives. Edited by Richard Koch, Kenneth N. F. Shaw, and Frances Durkin. *DHEW Publication No. (HSA) 79-5294. 1979; 56 pages.*

Treatment Programs for PKU in the United States: A survey. By Virginia E. Schuett and Robert F. Gurda. *DHEW Publication No. (HSA) 79-5296. 1979; 49 pages.*

Extended Care Facilities, Census Data: 1969 through 1978. By Glenda Wright and William Frank Page. *Extended Care Census Report No. 6. August 1979; 98 pages. Reports and Statistics Service, Office of Controller, Veterans Administration, Washington, D.C. 20420.*

Federal publications listed are obtainable from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Orders should be accompanied by check or money order and should identify the publication. (Publications without prices may be obtained from the agency.)

**WORLD HEALTH ORGANIZATION**

The African Trypanosomiasis. Report of a Joint WHO Expert Committee and FAO Expert Consultation. *WHO Technical Series No. 635*. 1979; 96 pages (ISBN 92 4 120635 7); Geneva (also published in French).

Controlling the Smoking Epidemic. Report of the WHO Expert Committee on Smoking Control. *WHO Technical Report Series No. 636*. 1979; 87 pages (ISBN 92 4 120636 5); Geneva (French and Spanish editions in preparation).

DDT and Its Derivatives. Published under the joint sponsorship of the United Nations Environment Programme and the World Health Organization. *Environmental Health Criteria 9*. 1979; 175 pages (ISBN 92 4 154069 9); Geneva (French edition in preparation).

Carbon Disulfide. Published under the joint sponsorship of the United Nations Environment Programme and the World Health Organization. *Environmental Health Criteria 10*. 1979; 100 pages (ISBN 92 4 154070 2); Geneva (French edition in preparation).

Oral Health Services in Europe. By J. Kostlan. *WHO Regional Publications, European Series No. 5*. 1979; 141 pages (ISBN 92 9020 105 3); Copenhagen.

Measurement of Levels of Health. Edited by Walter W. Holland, Johannes Ipsen, and Jan Kostrzewski. *WHO Regional Publications, European Series No. 7*. 1979; 456 pages (ISBN 92 9020 107 X); Copenhagen.

International Histological Classification of Tumours, No. 20: Histological typ-

ing of tumours of the liver, biliary tract and pancreas. By J. B. Gibson in collaboration with L. H. Sobin and pathologists in 13 countries. 1978; 40 pages, illustrated (ISBN 92 4 176020 6); Geneva (French and Spanish editions in preparation).

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans. Vol. 19: Some Monomers, Plastics, and Synthetic Elastomers, and Acrolein. 1979; 513 pages. *International Agency for Research on Cancer, Lyon*. Distributed for IARC by WHO.

Cancer Registration and Its Techniques. Edited by R. MacLennan, C. Muir, R. Steinitz, and A. Winkler. *IARC Scientific Publications, No. 21*. 1978; 235 pages. *International Agency for Research on Cancer, Lyon*. Distributed for IARC by WHO.

Environmental Carcinogens — Selected Methods of Analysis. Vol. 2. Methods for the Measurement of Vinyl Chloride in Poly (vinyl chloride), Air, Water and Foodstuffs. By D. C. M. Squirell and W. Thain. *IARC Scientific Publications No. 22*. 1978; 140 pages. *International Agency for Research on Cancer, Lyon*. Distributed for IARC by WHO.

WHO publications may be obtained from WHO Publications Centre USA, 49 Sheridan Ave., Albany, N.Y. 12210.

**NON-FEDERAL**

Anti-Trust Implications of Hospital Mergers: A Review and Discussion. By David B. Starkweather, Leo Greenawalt, and Anne Mehringer. June 1979; \$3.50. *REPORTS, Attn.: J. Lyons,*

211/7, Blue Cross & Blue Shield Assns., 840 North Lake Shore Dr., Chicago, Ill. 60611.

Group Practice: Review and recommendations for planning and research. By John E. Kralewski and Roice D. Luke. June 1979; \$4. *REPORTS, Attn.: J. Lyons, 211/7, Blue Cross & Blue Shield Assns., 840 North Lake Shore Dr., Chicago, Ill. 60611.*

Working Paper of the NLN Task Force on Competence of Graduates of Nursing Programs. *NLN Publication No. 14-1787*. 1979; 15 pages; \$1.50. *Publications Order Unit, National League for Nursing, 10 Columbus Circle, New York, N.Y. 10019.*

Lung Diseases of Children. By Hugh E. Evans. 1979; 109 pages. *American Lung Association, 1740 Broadway, New York, N.Y. 10019.*

Know Your Medication. How to use over-the-counter and prescription drugs. By Alex Gordon and Jules Saltman. *Public Affairs Pamphlet No. 570*. June 1979; 28 pages; 50 cents. *Public Affairs Pamphlets, 381 Park Ave. South, New York, N.Y. 10016.*

Inside the Mayo Clinic. By Alan E. Nourse. 1979; \$12.95. *McGraw-Hill Book Co., 1221 Avenue of the Americas, New York, N.Y. 10020.*

Stomach Cancer. A series of workshops on the biology of human cancer. Edited by D. W. Piper. *UICC Technical Report Series, Vol. 34, Report No. 6*. 1978; 138 pages. *International Union Against Cancer, 3 rue du Conseil-General, Ch 1205, Geneva, Switzerland.*

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## 1979 Subject and Author Index

<i>Pages</i>	<i>Month of Issue</i>	<i>No.</i>
1-104 _____	January-February _____	1
105-200 _____	March-April _____	2
201-296 _____	May-June _____	3
297-396 _____	July-August _____	4
397-492 _____	September-October _____	5
493-596 _____	November-December _____	6

### Key to Classification of Subject Index

- (\*) Original signed article
- (PR) Publication review
- (SR) Short report

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This index to PUBLIC HEALTH REPORTS is divided into a subject index and an author index. The subject index carries one or more entries for each item published. In addition to the subject headings, categorical headings include ANNOUNCEMENTS, CONFERENCES and ORGANIZATIONS; BIBLIOGRAPHIES; CONTRACTS, FELLOWSHIPS, GRANTS; FEDERAL REGISTER BRIEFS; FILMS; and PUBLICATION REVIEWS.

---

# SUBJECT INDEX

## ABNORMALITIES

- cost of treating birth defects, State Crippled Children's Services, 1975 ..... \*420
- physician-diagnosed, in black and white children in a total community, Bogalusa, La ..... \*124
- risk of malformations from mothers' use of hormone progesterin during early pregnancy (SR) ..... 95

## ABORTION

- induced, completeness and accuracy of reporting, Hawaii's hospitals, 1970-74 ..... \*454

## ADOLESCENTS

- contraceptive clinic programs, community linkages and outreach services ..... \*415
- health-related behavior, some indicators of ..... \*109

## AGED AND AGING

- see also* Geriatrics
- expanding opportunities for services and jobs for older people under Comprehensive Employment and Training Act (SR) ..... 392
- hyperpyrexia among nursing home residents due to air-conditioning failure ..... \*466
- "Special Report on Aging: 1979" (PR) ..... 579

## ALCOHOLISM

- pitfalls and successes in recruiting recovered alcoholic women for research ..... \*332

## AMBULATORY CARE

- visits, system for classifying data concerning reasons for (PR) ..... 389

## ANIMALS

- biting, public health problem in Jefferson County, Ala ..... \*528
- cattle and sheep; FDA bans diethylstilbestrol as growth promoter (SR) ..... \*380
- pet ownership, survey of attitudes toward responsible ..... \*380
- testing laboratories, standards set on safety of FDA-regulated products (SR) ..... 197

## ANNOUNCEMENTS, CONFERENCES

- Data Tape Users Conference sponsored by National Center for Health Statistics ..... 95
- international conference and education workshop on hypothermia ..... 578
- Measuring Impact on Health Status: An Examination of Issues and Problems; symposium at meeting of American Association for Advancement of Science ..... 578
- national conference on modeling of the dental delivery system in the United States and the use of modeling as a dental manpower planning tool .. 291
- National Symposium on Wastewater Aerosols and Disease ..... 392
- Prevention: Closing the Knowledge-Action Gap, sponsored by Australian and New Zealand Society for Epidemiology and Research in Com-

- munity Health and the Australian Public Health Association ..... 96
- seminar on industrial toxicology ..... 583
- seminar on occupational control of hazardous materials ..... 583
- 10th International Conference on Health Education, London ..... 291
- toxicology of respiratory particles, 19th Annual Hanford Life Sciences Symposium ..... 392

## ANNOUNCEMENTS, ORGANIZATIONS

- American Association for Laboratory Science, call for papers (SR) ..... 94
- American Public Health Association's mental health section offers stress reduction techniques; experimental workshop ..... 390
- Arthritis Information Clearinghouse set up at NIH .. 193
- Institute of Human Nutrition sponsors symposium on nutrition and killer diseases ..... 390
- Society for Clinical Trials meeting, call for papers .. 580

## ARTHRITIS

- clearinghouse for information set up at NIH (SR) .. 193
- Lyme, physicians search for cause (SR) ..... 487

## ARTHRITIS CENTER OF HAWAII

- concepts and rationale for developing an outcome-based evaluation plan for ..... \*357

## ASBESTOS

- exposure to, campaign for greater public awareness of health hazards (SR) ..... 388
- potential to cause cancer, sources of exposure, and protective measures (PR) ..... 286

## BEHAVIOR

- health-related, some indicators among adolescents in United States ..... \*109
- preventive health behaviors, interrelationships among: test of competing hypotheses ..... \*216
- Surgeon General's Report on Health Promotion and Disease Prevention ..... 483

## BIBLIOGRAPHIES

- National Library of Medicine ..... 288
- on tropical medicine produced by National Library of Medicine on trial basis (SR) ..... 582

## BIOLOGY

- living cell, history of complex world inside (PR) .. 196

## BIRTH CONTROL *see* Family Planning

## BIRTHS *see* Vital Statistics

## BITES

- animal, public health problem in Jefferson County, Ala ..... \*528
- human, epidemiology of 892 reports from New York City, 1977 ..... \*514

## BURNS

- epidemiology of injuries, New York ..... \*312

## CANCER

- asbestos a potential cause; sources of exposure and protective measures (PR) ..... 286
- breast, new test to detect spread (SR) ..... 491
- genetic considerations in incidence among humans .. \*471
- incidence rates, newly reported (PR) ..... 95
- information service, toll-free telephone inquiry system (SR) ..... 579
- liver, in male and female mice, caused by agricultural pesticide toxaphene (PR) ..... 291
- survival data on VA patients (PR) ..... 93
- what blacks and Hispanics should know (PR) ..... 390

## CARDIOVASCULAR DISEASE

- in rural Tennessee, effect of increased access to health care on mortality from ..... \*186

## CENTER FOR DISEASE CONTROL

- homestudy programs, enhancing a university's health science curriculum with ..... \*366

## CENTRAL PLACE THEORY

- guide to the delineation of medical care regions, medical trade areas, and hospital service areas .. \*248

## CHILD HEALTH AND WELFARE

- see also* Adolescents, Infants, Youths
- black and white children, physician-diagnosed abnormalities in a total community, Bogalusa, La . \*124
- cost effectiveness of screening children in health centers ..... \*362
- cost of treating birth defects in State Crippled Children's Services, 1975 ..... \*420
- mental health; forces that shape the lives of our young ..... \*399
- risk of malformations from mothers' use of hormone progesterin during early pregnancy (SR) .... 95
- school-based influenza surveillance system ..... \*88
- work during pregnancy and subsequent hospitalization of mothers and infants; evidence from the National Survey of Family Growth ..... \*425

## CHRONIC DISEASES

- see also* name of disease
- chronically ill; new medical information systems aid in treating (SR) ..... 579

## CLINICS *see* Health Facilities

## COMMUNITY BOARDS

- effectiveness of participation in mental health programs; comparative case studies of two boards, Massachusetts ..... \*268
- trained to increase effectiveness of a neighborhood health center, New York City ..... \*275

## COMPUTERS

- Data Tape Users Conference announced by National Center for Health Statistics (SR) ..... 95

## CONTRACEPTIVES

- clinic for adolescents, community linkages and outreach services ..... \*415
- oral and IUD, complications with use among Navajo women ..... \*243

## CONTRACTS, FELLOWSHIPS, GRANTS

- BHM contract to develop and test a comprehensive system of continuing education for working health administrators and planners to University of Massachusetts, Amherst ..... 195
- BHM contract to develop health professions in the Trust Territories of the Pacific Islands ..... 576
- fellowships for research and study abroad in the health sciences ..... 389
- solar energy demonstration projects; HEW awards \$1.2 million ..... 580

## CONTROLLED SUBSTANCES *see* Drugs

## CYSTIC FIBROSIS

- new test to detect carriers of gene (SR) ..... 576

## DATA COLLECTION *see* Surveys

## DEATH

- study of where people died in 1977 in upstate New York, by cause, decedent's age, sex, marital status, and race ..... \*522

## DENTAL HEALTH

- see also* Periodontal Disease
- active duty Army, determination of the distribution of dental care needs of ..... \*182

## DENTAL SCHOOLS

- and medical, an appraisal of 3-year programs .... \*85

## DISASTERS

- Hurricane Agnes, emotional and physical distress following, Wyoming Valley of Pennsylvania ..... \*495

## DRUGS

- amphetamines for weight reduction, FDA proposes to withdraw approval (SR) ..... 578
- diethylstilbestrol, banned by FDA as growth promoter in animals (SR) ..... 583
- hormone progesterin, risks of using during early pregnancy, FDA warning (SR) ..... 95
- natamycin, antibiotic for treating fungus infection of eye approved by FDA (SR) ..... 290

## ECONOMICS, HEALTH

- cost-effectiveness analysis principles applied to health programs ..... \*535
- cost effectiveness of home health care: overview of literature ..... \*305
- cost effectiveness of screening children in health centers ..... \*362
- cost of treating birth defects in State Crippled Children's Services, 1975 ..... \*420
- cost savings through new technique for reimbursement for medical services (PR) ..... 583

economic and social impact of periodontal disease .....	*172
economic perspectives for nurse practitioners .....	*142
differences in length of stay for Medicaid and Blue Cross patients and the effect of intensity of services .....	*438
feasibility and patient mix of family nurse practitioners .....	*148
management issues in the organization and delivery of family planning services .....	*459
management of health service delivery and professional productivity; a case study model, Children's Hospital Medical Center, Boston .....	*326
regulations to assure the needy free or reduced-cost care in Hill-Burton facilities (SR) .....	486
shared services and other multihospital arrangements .....	*446

#### EDUCATION NOTES

air pollution training courses .....	101
air pollution training institute .....	584
course on adolescent pregnancy .....	394
development of skills to measure health needs and program outcomes .....	292
laboratory safety training .....	292
management of infectious diseases .....	101
national conference on child sexual abuse .....	491
new MPH program at Yale in long-term care area ..	292
postdoctoral fellowships in psycho-social aspects of alcohol and drug use .....	292
regional seminar, Infection Control Today .....	491
resident postdoctoral fellowships offered by Hastings Center, Institute of Society, Ethics, and the Life Sciences .....	583
seminars on operation, control, and management of activated sludge plants treating industrial wastewaters .....	101
symposium on drugs and chemical risks to the fetus and newborn .....	197
ten-day teaching seminar on cardiovascular epidemiology and prevention .....	101
training for geriatric nurse practitioners .....	394

#### EDUCATION, PROFESSIONAL

<i>see also</i> Schools of Public Health; Training	
continuing education for working health administrators and planners, BHM contract to University of Massachusetts, Amherst, for development and testing of comprehensive system (SR) .....	195
continuing medical education for National Health Service Corps professionals assigned to rural areas, University of New Mexico's approach .....	*281
dental schools, pilot quality assurance curriculum will be developed and tested by University of Connecticut Health Center under BHM contract (SR) .....	194

enhancing a university's health science curriculum with homestudy programs of the Center for Disease Control .....	*366
geriatric, current and future needs .....	*73
geriatrics, report discourages development of formal practice specialty (PR) .....	286
graduate education program in public health for American Indians (SR) .....	287
graduate program in podiatric public health, University of Illinois School of Public Health and the Illinois College of Podiatric Medicine in Chicago collaborate (SR) .....	194
impact of the Health Professions Educational Assistance Act on specialty distribution among first-year residents .....	*22
National Health Service Corps awards 5,249 scholarships to health students (SR) .....	94
National Health Service Corps scholarships now for later: meeting the health manpower needs of medically underserved areas .....	*11
nursing, Federal support to improve quality of practice .....	*31
one-third of U.S. medical students partially trained at Veterans Administration facilities (SR) .....	
primary care preceptorships and other factors, influence on physicians' career choices .....	*36
selection of medical students to meet physician manpower needs; a statistical model .....	*16

#### EMERGENCY SERVICES

paramedic programs and cardiac mortality: description of a controlled experiment .....	*80
--	-----

#### ENERGY

<i>see also</i> Solar Energy	
conservation efforts of Bureau of Health Facilities (November-December inside cover)	

#### EPIDEMIOLOGY

<i>see also</i> name of disease or condition	
burn injury in New York .....	*312
epidemiologic research projects included in TOX-LINE, National Library of Medicine (SR) .....	489
epidemiologic tradition; Wade Hampton Frost lecture .....	*203
hepatitis-B surface antigen and antibody: prevalence and persistence in institutionalized and noninstitutionalized persons .....	*262
of 892 reports of human bites, New York City, 1977 .....	*514

#### ERRATA

health manpower for the nation, future supply and requirements .....	196
leprosy in the United States, 1967-76 .....	100

#### ETHNIC GROUPS

American Indians, graduate education program in public health (SR) .....	287
--	-----

black Americans, social science survey of 5,000 (SR) .....	289
Mexican-Americans, hypertension research needed ..	*372
Navajo women, complications with use of IUD and oral contraceptives .....	*243
urban black population, hypertension followup ....	*130
urban Mexican-Americans in Ohio, use of the health care delivery system .....	*226
<b>EVALUATION</b>	
concepts and rationale for developing an outcome-based plan for the Arthritis Center of Hawaii ....	*357
of a self-administered health history questionnaire used in a general medical outpatient clinic, validity and reliability .....	*231
of health care, four basic types: clinical reviews, clinical trials, program reviews, and program trials .....	*210
<b>EYE DISEASES</b> <i>see</i> Vision	
<b>FAMILY GROWTH</b>	
analysis of data on work during pregnancy and subsequent hospitalization of mothers and infants; evidence from the National Survey of Family Growth .....	*425
<b>FAMILY PLANNING</b>	
adolescent contraceptive clinic programs, community linkages and outreach services .....	*415
differences in U.S. marital fertility, 1970-73, by planing status of births .....	*319
management issues in the organization and delivery of services .....	*459
<b>FEDERAL REGISTER BRIEFS</b>	
changes and developments in the health field .....	98, 197, 293, 392
<b>FILMS</b>	
"Prevention Factor," how routine health care can prevent serious disease, free loan .....	390
"Seeing," 16-mm, free loan; features Helen Hayes ..	582
<b>FOODS AND DRUGS</b>	
containing Yellow No. 5; labels must identify (SR) .....	489
<b>GAY BATHHOUSES</b>	
screening for gonorrhea and syphilis in Denver and Los Angeles .....	*376
<b>GENETICS</b>	
carriers of cystic fibrosis gene, new test to detect (SR) .....	576
considerations in human cancer incidence .....	*471
<b>GERIATRICS</b>	
development of formal practice specialty discouraged (PR) .....	286
education, current and future needs .....	*73

<b>GROSS NATIONAL HEALTH PRODUCT</b>	
proposed population health index .....	*119
<b>HEALTH CARE</b>	
<i>see also</i> Home Health Care; Rural Health; Urban Health	
evaluation, four basic types: clinical reviews, clinical trials, program reviews, and program trials ...	*210
house calls: anachronism or advent? .....	*299
lifestyle and conditions of life in urban and suburban areas, Boston .....	*477
"The Prevention Factor," free loan film on how routine care can prevent serious disease (SR) ....	390
<b>HEALTH CAREERS</b>	
guide to printed and audiovisual materials (PR) ..	196
<b>HEALTH DEPARTMENTS</b>	
Minnesota, school-based influenza surveillance system .....	*88
strategies for involving in planning; experiences in a rural Georgia health service agency .....	*336
<b>HEALTH EDUCATION</b>	
Cancer Information Service, toll-free telephone inquiry system (SR) .....	579
messages, assessing readability of .....	*568
nutrition counseling at planned parenthood centers .....	*239
nutrition, supermarket launches pilot research with NHLBI (SR) .....	195
planning a community health fair .....	*156
poison prevention materials available (SR) .....	94
poster featuring "droids" from movie "Star Wars" focuses public awareness on childhood immunization (SR) .....	581
rape prevention education package available (SR) .	195
X-rays during pregnancy, poster bearing caution available (SR) .....	288
<b>HEALTH FACILITIES</b>	
<i>see also</i> type of facility	
adolescent contraceptive clinic programs, community linkages and outreach services .....	*415
evening mental health clinic in county hospital reaches underserved population .....	*553
general medical outpatient clinic uses self-administered health history questionnaire .....	*231
neighborhood center in New York City; community board trained to increase its effectiveness .....	*275
remote rural clinic manned by a physician's assistant; evaluation .....	*60
rural primary care clinics, progress in development in West Virginia .....	*369
skilled nursing facilities, nosocomial infections; preliminary survey .....	*162
<b>HEALTH FAIRS</b> <i>see</i> Health Education	
<b>HEALTH MANPOWER</b>	
appraisal of 3-year programs in medical and dental schools .....	*85

changing directions in the training of professionals (January–February inside cover)	
characteristics of graduate students in U.S. schools of public health: comparison of 3 academic years . . .	*67
current and future needs in geriatric education . . .	*73
designation of shortage areas for use by Public Health Service programs . . . . .	*48
family nurse practitioners, economic feasibility and patient diagnostic mix of . . . . .	*148
for the nation—a look ahead at the supply and re- quirements . . . . .	*3, 196
health professions development in the Trust Terri- tories of the Pacific Islands (SR) . . . . .	576
impact of the Health Professions Educational As- sistance Act on specialty distribution among first-year residents . . . . .	*22
meeting the needs of medically underserved areas; scholarships now for service later . . . . .	*11
nurse practitioner as physician substitute in remote area; case study . . . . .	*571
nurse practitioners, economic perspectives for . . .	*142
nursing education, Federal support to improve quality of practice . . . . .	*31
paramedic programs and cardiac mortality: de- scription of a controlled experiment . . . . .	*80
physician's assistants in primary care practices; delegation of tasks and physician supervision . . .	*340
physicians' career choices, influence of primary care preceptorships and other factors . . . . .	*36
remote, rural clinic manned by a physician's as- sistant; evaluation . . . . .	*60
selection of medical students to meet needs for physicians; a statistical model . . . . .	*16
<b>HEALTH PLANNING</b>	
for services, marketing research; a model . . . . .	*503
guide to delineation of medical care regions, medi- cal trade areas, and hospital service areas . . . . .	*248
Institute for Strategic Health Care Planning de- veloping series of seminars (SR) . . . . .	194
lifestyle, conditions of life, and health care in urban and suburban areas, Boston . . . . .	*477
newsletter, new monthly for members of health sys- tems agencies governing bodies (SR) . . . . .	488
procedural considerations concerning data collectors and types of data obtained in household inter- view surveys . . . . .	*136
strategies for involving health departments in; ex- periences in a rural Georgia health service agency .	*336
<b>HEALTH RESOURCES ADMINISTRATION</b>	
Bureau of Health Planning and Research Develop- ment split into two new bureaus (SR) . . . . .	96
<b>HEALTH SERVICES</b>	
management of delivery and professional productiv- ity: a case study model, Children's Hospital Medical Center, Boston . . . . .	*326
<b>HEALTH STATISTICS</b>	
induced abortions performed in Hawaii's hospitals, 1970–74; completeness and accuracy of re- porting . . . . .	*454
proposed population health index: the gross na- tional health product . . . . .	*119
state of the nation's health, 1978 (PR) . . . . .	285
<b>HEALTH SYSTEMS AGENCIES</b>	
health planning newsletter for governing bodies of (SR) . . . . .	488
strategies for involvement of health departments in planning experiences in rural Georgia . . . . .	*336
<b>HEPATITIS</b>	
prevalence and persistence of hepatitis-B surface antigen and antibody in institutionalized and noninstitutionalized persons . . . . .	*262
<b>HOME HEALTH CARE</b>	
cost effectiveness: overview of literature . . . . .	*305
<b>HOSPITALS</b>	
construction, DHEW issues final regulations estab- lishing general standards for (SR) . . . . .	96
differences in length of stay of Medicaid and Blue Cross patients and the effect of intensity of services . . . . .	*438
in Hawaii, completeness and accuracy of reporting induced abortions performed, 1970–74 . . . . .	*454
multihospital movement defined . . . . .	*446
short-stay, use in the United States, 1976 (PR) . . . .	93
<b>HOUSE CALLS</b>	
anachronism or advent? . . . . .	*299
<b>HYPERPYREXIA</b>	
due to air-conditioning failure in a nursing home . . .	*466
<b>HYPERTENSION</b>	
followup in an urban black population . . . . .	*130
research need for Mexican-Americans . . . . .	*372
<b>INDIANS, AMERICAN <i>see</i> Ethnic Groups</b>	
<b>INFANTS</b>	
mortality in Newark, N.J.; sociodemographic and medical factors . . . . .	*349
<b>INFORMATION SYSTEMS</b>	
medical, aid in treating chronically ill (SR) . . . . .	579
<b>INFLUENZA</b>	
school-based surveillance system, Minnesota . . . . .	*85
<b>INSURANCE, HEALTH</b>	
differences in length of hospital stay for Medicaid and Blue Cross patients and the effect of intensity of services . . . . .	*438
<b>INTERNATIONAL HEALTH</b>	
job safety and health; U.S. agencies to exchange information with Commission of European Com- munities (SR) . . . . .	579

new journal, <i>Sociology of Health and Illness</i> (SR) . . . . .	193	<b>MEDICINE, TROPICAL</b>	
primary health care, report by WHO and United Nations Children's Fund (PR) . . . . .	97	bibliography produced on trial basis by National Library of Medicine (SR) . . . . .	582
<b>JOB CORPS</b>		<b>MENTAL HEALTH</b>	
experience with health problems among disadvantaged youths . . . . .	*407	effective citizen participation: comparative case studies of two boards, Massachusetts . . . . .	*268
<b>LABORATORIES</b>		emotional and physical distress following Hurricane Agnes, Wyoming Valley of Pennsylvania . . . . .	*495
conducting animal tests, standards established on safety of FDA-regulated products (SR) . . . . .	197	evening clinic in county general hospital reaches underserved population . . . . .	*553
<b>LAWS AND REGULATIONS</b>		forces that shape the lives of our young . . . . .	*399
<i>see also</i> Federal Register Briefs		stress reduction techniques, experimental workshop offered at annual APHA meeting (SR) . . . . .	390
final regulations establishing general standards for hospital construction issued by DHEW (SR) . . . . .	96	<b>MILITARY PERSONNEL</b>	
health manpower shortage areas, designation for use by Public Health Service programs . . . . .	*48	active duty Army, determination of the distribution of dental care needs of . . . . .	*182
Health Professions Educational Assistance Act, impact on specialty distribution among first-year residents . . . . .	*22	rubella vaccination for women entering U.S. Army . . . . .	*564
standards established for animal studies on safety of FDA-regulated products (SR) . . . . .	197	<b>NATIONAL HEALTH SERVICE CORPS</b>	
<b>MALARIA</b>		assignment of a nurse practitioner as a physician substitute in remote rural community; case study . . . . .	*571
infected red blood cells, spleen the major organ in removal from bloodstream (SR) . . . . .	290	awards scholarships to health students (PR) . . . . .	94
<b>MANPOWER <i>see</i> Health Manpower</b>		caring for the people; supplement to July–August issue	
<b>MATERNAL HEALTH</b>		continuing medical education for professionals assigned to rural areas, University of New Mexico's approach . . . . .	*281
comparison of mothers' occupations reported on live birth certificates and on a survey questionnaire . . . . .	*432	scholarship programs to meet health manpower needs of medically underserved areas . . . . .	*11
risks of using hormone progestin during early pregnancy, FDA warnings (SR) . . . . .	95	<b>NEW HEALTH PROFESSIONALS <i>see</i> Health Manpower</b>	
work during pregnancy and subsequent hospitalization of mothers and infants; evidence from the National Survey of Family Growth . . . . .	*425	<b>NOSOCOMIAL INFECTIONS</b>	
<b>MEDICAID <i>see</i> Insurance, Health</b>		in skilled nursing facilities; preliminary survey . . . . .	*162
<b>MEDICAL CARE</b>		<b>NUCLEAR ACCIDENTS</b>	
a guide to delineation of medical care regions, medical trade areas, and hospital service areas . . . . .	*248	population dose and impact on health of Three-Mile Island accident (PR) . . . . .	387
shared services and other multihospital arrangements . . . . .	*446	<b>NURSE PRACTITIONERS <i>see</i> Health Manpower</b>	
<b>MEDICAL SCHOOLS</b>		<b>NURSING</b>	
and dental, an appraisal of 3-year programs . . . . .	*85	education, Federal support to improve quality of practice . . . . .	*31
selection of medical students to meet physician manpower needs; a statistical model . . . . .	*16	<b>NUTRITION</b>	
<b>MEDICINE, PREVENTIVE</b>		counseling at planned parenthood centers . . . . .	*239
"Healthy People: The Surgeon General's Report on Health Promotion and Disease Prevention" beyond the absence of illness (September–October inside cover)		"Foods for Health," supermarket launches pilot research program with NHLBI (SR) . . . . .	195
adaptation of a chapter . . . . .	483	labeling on food packages, FDA evaluation of availability (SR) . . . . .	193
human antirabies treatment in the United States, 1972 . . . . .	*166	<b>OCCUPATIONAL HEALTH</b>	
rubella vaccination for women entering the U.S. Army . . . . .	*564	asbestos exposure, campaign for greater public awareness of health hazards (SR) . . . . .	388
		comparison of mothers' occupations reported on live birth certificates and on a survey questionnaire . . . . .	*432
		job safety and health agencies cooperate to increase efficiency and effectiveness (SR) . . . . .	486

OSHA and NIOSH to exchange information on job safety and health with Commission of European Communities (SR) .....	579	"Primary Health Care." A joint report by Director-General of the World Health Organization and the Executive Director of the United Nation's Children's Fund .....	97
PERIODONTAL DISEASE		"SEER Program. Cancer Incidence and Mortality in the United States, 1973-76" .....	95
economic and social impact .....	*172	"Sociology of Health and Illness," new international journal scheduled, spring 1979 .....	193
PESTICIDES		"Special Report on Aging: 1979" .....	579
toxaphene, agricultural, causes liver cancer in male and female mice (PR) .....	291	"Utilization of Short-Stay Hospitals: Annual Summary for the United States, 1976" .....	93
PETS		"Veterans Administration Cancer Patient Survival".	93
survey of attitudes toward responsible ownership ..	*380	"What Black Americans Should Know About Cancer" .....	390
PHYSICIANS		QUALITY OF LIFE	
<i>see also</i> Health Manpower		lifestyle, conditions of life, and health care in urban and suburban areas, Boston .....	*477
career choices found predictable in study of medical school graduates (PR) .....	490	QUESTIONNAIRE, HEALTH HISTORY	
PHYSICIAN'S ASSISTANTS <i>see</i> Health Manpower		self-administered in general medical outpatient clinic, tested for validity and reliability .....	*231
PLANNED PARENTHOOD CENTERS		RABIES	
provide nutrition counseling .....	*239	human antirabies treatment in the United States, 1972 .....	*166
PODIATRY		RAPE	
in public health, collaborative graduate program in two Chicago schools (SR) .....	194	and older women, a guide to prevention and protection (PR) .....	581
POISON		prevention education package available from National Center for the Prevention and Control of Rape (SR) .....	195
materials available for National Poison Prevention Week (SR) .....	94	RESEARCH	
POPULATION		epidemiologic research projects included in TOX-LINE, National Library of Medicine (SR) .....	489
proposed health index, the gross national health product .....	*119	Lyme arthritis, physicians search for cause (SR) ...	487
PUBLICATION REVIEWS		on eye disease, United States and U.S.S.R. cooperate (SR) .....	286
"AAMC Longitudinal Study of Medical School Graduates of 1960" .....	490	on hypertension needed for Mexican-Americans ...	*372
"A Reason for Visit Classification for Ambulatory Care" .....	389	on spread of breast cancer, new test to detect (SR)	491
"Aging and Medical Education" .....	286	spleen major organ in removing malaria-infected red blood cells from bloodstream (SR) .....	290
"Asbestos: An Information Resource" .....	286	techniques for recruiting special types of persons for: pitfalls and successes in enlisting recovered alcoholic women .....	*332
"Bioassay of Toxaphene for Possible Carcinogenicity" .....	291	RUBELLA	
"Guide to Printed and Audiovisual Materials on Health Careers" .....	196	vaccination program for women entering U.S. Army.	*564
"Health, United States, 1978" .....	285	RULES AND REGULATIONS	
"Inside The Cell. The New Frontier of Medical Science" .....	196	Federal Register briefs .....	98, 197, 293, 392
"Lo Que Usted Debe Sabre Sobre, el Cancer (What You Should Know About Cancer)" .....	390	labels on foods and drugs to identify additive Yellow No. 5 (SR) .....	489
"Per Case Reimbursement for Medical Services" ...	583	to assure the needy free or reduced-cost care in Hill-Burton aided facilities (SR) .....	486
"Population Dose and Health Impact of the Accident at the Three Mile Island Nuclear Station (a preliminary assessment for the period March 28 through April 7, 1979)" .....	387	RURAL HEALTH	
"Proceedings of the National Conference on Referral Criteria for X-ray Examinations" .....	490	effect of increased access to health care on mortality from cardiovascular disease in rural Tennessee	*186
"Rape and Older Women: A Guide to Prevention and Protection" .....	581		

progress in development of primary care clinics in West Virginia .....	*369		
SCHOOL HEALTH <i>see</i> Child Health and Welfare			
SCHOOLS OF PUBLIC HEALTH			
characteristics of graduate students: comparison of 3 academic years .....	* 67		
University of Illinois and Illinois College of Podiatric Medicine, collaborative graduate program in podiatric public health (SR) .....	194		
University of Michigan, model of a center for continuing education .....	*255		
University of Oklahoma, graduate program for American Indians (SR) .....	287		
SCREENING PROGRAMS			
cost effectiveness of screening children in health centers .....	*362		
for gonorrhea and syphilis in gay bathhouses in Denver and Los Angeles .....	*376		
SICKLE CELL ANEMIA			
5-year clinical study of patients (SR) .....	490		
SMOKING			
and health; update of 1964 report of the Surgeon General .....	*107		
cessation, review and evaluation of methods, 1969-77; summary of a monograph .....	*558		
how health professionals can help smokers quit; kit available from National Cancer Institute (SR) ..	391		
in institutions training health professionals; survey ..	*544		
report of the Surgeon General		(March-April inside cover)	
SOLAR ENERGY			
demonstration projects: HEW awards \$1.2 million (SR) .....	580		
STATISTICS <i>see</i> Health Statistics			
SUPPLEMENT			
to July-August issue, "Caring for the People, The National Health Service Corps in Action"			
SURVEYS			
household interview, procedural considerations concerning data collectors and types of data obtained .....	*136		
nosocomial infections in skilled nursing facilities; preliminary survey .....	*162		
of smoking in institutions that train health professionals .....	*544		
social science survey of 5,000 black Americans (SR)	289		
		TRAINING	
		for health professionals, changing directions	
		(January-February inside cover)	
		for health professions development in the Trust Territories of the Pacific Islands (SR) .....	576
		URBAN HEALTH	
		hypertension followup in a black population .....	*130
		use of the health care delivery system by Mexican-Americans in Ohio .....	*226
		VACCINATIONS	
		rubella, program for women entering U.S. Army ...	*564
		VENEREAL DISEASES	
		screening for gonorrhea and syphilis in gay bathhouses, Denver and Los Angeles .....	*376
		VETERANS ADMINISTRATION	
		cancer patients' survival data published (PR) .....	93
		partially trains one-third of U.S. medical students (SR) .....	581
		VISION	
		fungus infection of eye, antibiotic natamycin approved for treatment by FDA (SR) .....	290
		sight preservation; 16-mm, free-loan film features Helen Hayes (SR) .....	582
		U.S.S.R and United States cooperate in research on eye diseases (SR) .....	286
		VITAL STATISTICS	
		<i>see also</i> Death, Health Statistics	
		birth and fertility rates in United States increased in 1977 (SR) .....	289
		cancer, newly reported incidence rates (PR) .....	95
		infant mortality in Newark, N.J.: study of socio-demographic and medical factors .....	*349
		mortality from cardiovascular disease in rural Tennessee; effect of increased access to health care ...	*186
		WORLD HEALTH ORGANIZATION	
		fellowships available for 1980 (SR) .....	292
		X-RAY EXAMINATIONS	
		proceedings of conference on referral criteria for (PR) .....	489
		YOUTHS	
		<i>see also</i> Adolescents	
		disadvantaged, health problems among, Job Corps experience .....	*407

# AUTHOR INDEX

- \* Original article
- Abramson, J. H . . . . \*210  
 Anderson, John E . . \*319  
 Andrews, John S., Jr. \*88  
 Athelstan, Gary T . . \*16
- Ballard, Robert G . . 194  
 Baptiste, Mark S . . . \*312  
 Barish, Anna M . . . . \*36  
 Beck, Alan M . . . . . \*514  
 Bennett, David . . . . \*376  
 Berenson, Gerald S . \*124  
 Bergner, Lawrence . . \*80  
 Berkowitz, Eric N . . \*503  
 Berman, Bella U . . . \*85  
 Blonde, Caroline V . \*124  
 Blumenthal,  
 Daniel S . . . . . \*156  
 Bosch, Samuel J . . . \*275  
 Branch, Laurence G. \*136  
 Bregman, Dennis J . \*466  
 Burch, Thomas A . . \*454  
 Burkhart, Marianne  
 Countryman . . . . . \*326
- Carucci, Peter M . . \*432  
 Cheatham, Joe L . . . \*182  
 Chen, Martin K . . . . \*119  
 Chen, Mei S . . . . . \*231  
 Child, Wendy L . . . . 391  
 Chung, Chin Sik . . . \*454  
 Cohen, Eva D . . . . . \*162  
 Cohen, Felissa L . . . \*544  
 Cohrs, Marlin . . . . . \*362  
 Collins, John E . . . . \*239  
 Coulehan, John L . . \*130  
 Crawford, B. L . . . . \*67  
 Cronquist, Norman . \*11
- Daniels, Marvel . . . . \*340  
 Dawson, Peter . . . . \*362  
 Deliere, Harry M . . . 287  
 Demone,  
 Harold W., Jr . . . . \*477  
 Dignan, Mark B . . . . \*186  
 Dorwart, Robert A . \*268  
 Dual, Peter A . . . . . \*255  
 Durmaskin,  
 Bettina T . . . . . \*369  
 Dusdieker, Lois B . . \*340
- Eisenberg, Mickey S. \*80  
 Ekwo, Edem . . . . . \*340  
 Eversole, Charles . . \*362
- Feck, Gerald . . . . . \*312  
 Fethke, Carol . . . . . \*340  
 Feurman, Martin . . . \*349
- Fiori, Florence B.  
 (November–December  
 inside cover)
- Flexner, William A . \*503  
 Foster, Theda A . . . \*124  
 Franco, Bert . . . . . \*336  
 Frank, Arthur . . . . . \*407  
 Frankenburg,  
 William K . . . . . \*362  
 Freimuth, Vickie S . \*568  
 Frerichs, Ralph R . . \*124
- Gliebe, Werner A . . \*226  
 Goldsmith, Seth B . . \*299  
 Golubjatnikov, R . . \*262  
 Gottlieb, Nell H . . . \*477  
 Greenwood, Judith G. \*60  
 Greer, Joanne G . . . \*415
- Hall, Mary B . . . . . \*186  
 Hammond, John . . . . \*305  
 Hansen, Holger . . . . \*495  
 Hanson, R. P . . . . . \*262  
 Hastings, Donald W. \*186  
 Hayman, Charles R . \*407  
 Heller, Jacob L . . . . \*231  
 Hendershot, Gerry E. \*425  
 Henry, Joseph L . . . \*172  
 Hewett, John E . . . . \*380  
 Hierholzer,  
 Walter J., Jr . . . . \*162  
 Hill, Robert F . . . . \*60  
 Holland, Charles D . \*369  
 House, William C . . . \*553  
 Howell, James T . . . \*466  
 Huard, Bernadette . . \*571
- Inui, Thomas S . . . . \*231  
 Ippolito, Rosann . . . \*239  
 Irvin, James A . . . . \*380
- Jacoby, Itzhak . . . . . \*22  
 Jerath, Bal K . . . . . 194  
 Judson, Franklyn N . \*376
- Kahn, Henry S . . . . \*156  
 Kantrowitz,  
 Martin P . . . . . \*281  
 Kappus, Karl D . . . . \*166  
 Katz, Barry P . . . . . \*522  
 Kemel, Wadie W . . . 194  
 Kovar, Mary Grace . \*109  
 Kunitz, Stephen J . . \*243
- Langlie, Jean K . . . . \*216  
 Lee, Richard C . . . . \*48  
 Lesniak, Mary Ann . \*415  
 Levy, Barry S . . . . . \*88  
 Little, Ruth E . . . . \*332
- Loddengaard,  
 Robert A . . . . . \*459
- Logue, James N . . . . \*495  
 Louria, Donald B . . \*349  
 Lugo, Joseph A., Jr . \*514  
 Lumish, Robert M . . \*466  
 Lund, Marjorie . . . . \*466
- McMillan, B. C . . . . \*262  
 Ma, Paul . . . . . \*420  
 Maetz, H. Michael . . \*528  
 Malley, Lynn R . . . . \*226
- Mangelsdorff,  
 A. David . . . . . \*182
- Marr, John S . . . . . \*514  
 Mason, Scott A . . . . \*446  
 Merino, Hernando I. \*376  
 Merino, Rolando . . . \*275  
 Meyers, William R . . \*268  
 Mi, Ming-Pi . . . . . \*454  
 Michelsen, Ernest . . \*11  
 Mitchell, Bill . . . . . \*88
- Moradiellos,  
 Darwin P . . . . . \*16
- Mullan,  
 Fitzhugh S. M.  
 (July–August  
 inside cover)
- Norman, Edward C . \*268
- Odoroff, Charles L . \*243  
 Olsen, Larry K . . . . \*366  
 Owens, Mitchell V . . \*287
- Page, Eva L . . . . . \*332  
 Page, Robert C . . . . \*466  
 Panneton, Paul E . . . \*73  
 Parker, Warren A . . . \*182  
 Pecoraro, Roger E . . \*231  
 Peterson, Denton . . . \*88  
 Piazza, Frances . . . . \*420  
 Pinney, John M . . . . \*107  
 Plorde, Diane K . . . . \*231  
 Prasad, Sidheshwar . \*432
- Rhoades, John D . . . \*380  
 Richmond, Julius B.  
 (March–April,  
 September–October  
 inside covers)
- Richter, Rosemary . \*349  
 Robertson,  
 Kathleen P . . . . . \*471  
 Rosenblatt, Roger A . \*571  
 Roth, Monty L . . . . \*362
- Salcido, Ramon M . . \*372  
 Schaffnit, Thomas R. \*376
- Schilling, Carroll R . \*162  
 Schopper, Aaron W . \*182  
 Schultz, Martin C . . \*326  
 Schwartz, Jerome L  
 \*148, \*558
- Scott, Jessie M . . . . \*31  
 Segal, Julius . . . . . \*399  
 Selby, Lloyd A . . . . \*380  
 Shepard, Donald S . . \*535  
 Simoneau, Elizabeth. \*349  
 Sinha, S. K . . . . . \*262  
 Sinkford, Jeanne C . \*172  
 Slocumb, John C . . . \*243  
 Smiciklas-Wright,  
 Helen . . . . . \*239
- Smith,  
 Edward, W. P . . . . \*466
- Smith,  
 Margot Wiesinger . \*248  
 Smith, Roy G . . . . . \*454  
 Snyderman, David R . \*162  
 Stambler, Howard V. \*3  
 Steinhoff,  
 Patricia G . . . . . 454
- Streissguth,  
 Ann Pytkowicz . . . . \*332  
 Struening, Elmer . . . \*495  
 Studnicki, James . . . \*438  
 Sullivan, Judith, A . \*142  
 Sullivan-Bolyai,  
 John Z . . . . . \*466
- Terris, Milton . . . . . \*203  
 Therriault, Gene D . \*522  
 Thind, Inderjit S . . . \*349  
 Thompson, Mark S . . \*535  
 Thurmon,  
 Theodore F . . . . . \*471  
 Toohey, Jack V . . . . \*366
- Vaeth, Stephan J . . . \*564  
 Varney, Joyce M . . . \*357  
 Vitaglione, Thomas J. \*459  
 Vogel, Idalee W . . . . \*281
- Warner, Judith S . . . \*142  
 Webber, Larry S . . . . \*124  
 Wechsler, Henry . . . . \*477  
 Wert, Frank S . . . . . \*60  
 Wesolowski,  
 Eleanor F . . . . . \*73  
 Whiteside, Daniel F.  
 (January–February  
 inside cover)
- Wiese, William H . . . \*281  
 Winkler, William G . . \*166
- Zambrana, Ruth . . . . \*275  
 Zdeb, Michael S . . . . \*522